Year 8 – Digital Technologies

2024 PROGRAM

NARROGIN SENIOR HIGH SCHOOL

Term 1

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| **Week** | **Lesson 1** | | | **Lesson 2** | | |
|  | **SCSA (Curriculum Descriptor)** | **Topic** | **Objectives** | **SCSA (Curriculum Descriptor)** | **Topic** | **Objectives** |
| **1** | **Investigating and Defining**  Investigate a given need or opportunity for a specific purpose.  Consider components/resources to develop solutions, identifying constraints. | **Topic**  Get to know the teacher.  Expectations of class and computers.  Assessment outline | **LI:**  Understand the expectation of digital technologies in 2024.  **SC:**  Identify 2 assessments that will be conducted in 2024 DT. | **Investigating and Defining**  Investigate a given need or opportunity for a specific purpose.  Consider components/resources to develop solutions, identifying constraints. | **Topic:**  Logging in and signing out correctly.  Treatment of devices.  Connect navigation.  Logging into compass.  Logging into emails. | **LI**  Explore the variety of uses that connect has at NSHS.  **SC**  Identify the different uses of connect, compass and emails. |
| **2** | **Investigating and Defining**  Investigate a given need or opportunity for a specific purpose.  Consider components/resources to develop solutions, identifying constraints. | **Topic**  Email signature.  Email etiquette  Setting up files  Opening an attachment and saving documents.  Attaching documents | **LI**  Explore the capabilities of emails.  **SC:**  Identify how to attach a document to an email.  Create an email signature | *Catch up lesson?*  **Investigating and Defining**  Investigate a given need or opportunity for a specific purpose.  Consider components/resources to develop solutions, identifying constraints. | **Topic:**  All about me PowerPoint. | **LI:**  Explore the different functions of Microsoft PowerPoint.  **SC:**  Create a PowerPoint about myself. |
| **3** | **Investigating and Defining**  Investigate a given need or opportunity for a specific purpose.  Consider components/resources to develop solutions, identifying constraints. | **Topic**  Typing skills | **LI:**  Practice typing skills.  **SC**  Identify practices in typing to improve | **Investigating and Defining**  Investigate a given need or opportunity for a specific purpose.  Consider components/resources to develop solutions, identifying constraints. | **Topic**  Letter template | **LI**  Explore letter etiquette.  **SC**  Send a letter to teacher using a letter head. |
| **4** | **Collecting managing and analysing data**  Evaluate the authenticity, accuracy and timeliness of acquired data. | **Topic:**  Cyber Safety | **LI**  Explore and understand how to stay safe online  **SC**  Outline two ways to stay safe online. | **Collecting managing and analysing data**  Evaluate the authenticity, accuracy and timeliness of acquired data. | **Topic:**  Cyber Safety | **LI**  Explore and understand how to stay safe online  **SC**  Outline two ways to stay safe online. |
| **5** | **Digital Systems**  Different types of networks, including wired, wireless and mobile networks Hardware components of a network | **Topic**  Digital systems  (wired, wireless and mobile) | **LI**  Explore the different types of networks and digital systems  **SC**  Identify the difference between the three main types of digital systems | **Digital Systems**  Different types of networks, including wired, wireless and mobile networks  Hardware components of a network | **Topic**  Digital systems  (WAN, LAN) | **LI**  Explore the difference between WAN & LAN  **SC**  Identify the difference between WAN & LAN |
| **6** | **Designing**  Design, develop, evaluate and communicate alternative solutions, using appropriate technical terms and technology  **Digital Implementation**  Design plans, using a sequence of steps, and represent them diagrammatically and in English, to solve a problem and to predict output for a given input to identify errors. | **Topic**  Drawing basic data networks | **LI**  Explore the drawing of basic data networks  **SC**  Draw a basic data network | **Digital Systems**  Methods of data transmission and security in wired, wireless and mobile networks.  Specifications of hardware components and their impact on network activities | **Topic**  Wireless data transmission | **LI**  Explore the concept of wireless data transmission  **SC**  Outline the concept of wireless data transmission |
| **7** | **Designing**  Design, develop, evaluate and communicate alternative solutions, using appropriate technical terms and technology  **Digital Implementation**  Design plans, using a sequence of steps, and represent them diagrammatically and in English, to solve a problem and to predict output for a given input to identify errors. | | **Assessment 1**  Drawing Data Networks | **Designing**  Design, develop, evaluate and communicate alternative solutions, using appropriate technical terms and technology  **Digital Implementation**  Design plans, using a sequence of steps, and represent them diagrammatically and in English, to solve a problem and to predict output for a given input to identify errors. | | **Assessment 1**  Drawing Data Networks |
| **8** | **Designing**  Design, develop, evaluate and communicate alternative solutions, using appropriate technical terms and technology  **Digital Implementation**  Design plans, using a sequence of steps, and represent them diagrammatically and in English, to solve a problem and to predict output for a given input to identify errors. | | **Assessment 1**  Drawing Data Networks | **Designing**  Design, develop, evaluate and communicate alternative solutions, using appropriate technical terms and technology  **Digital Implementation**  Design plans, using a sequence of steps, and represent them diagrammatically and in English, to solve a problem and to predict output for a given input to identify errors. | | **Assessment 1**  Drawing Data Networks |
| **9** | **Designing**  Design, develop, evaluate and communicate alternative solutions, using appropriate technical terms and technology  **Digital Implementation**  Design plans, using a sequence of steps, and represent them diagrammatically and in English, to solve a problem and to predict output for a given input to identify errors. | | **Assessment 1**  Drawing Data Networks | **Designing**  Design, develop, evaluate and communicate alternative solutions, using appropriate technical terms and technology  **Digital Implementation**  Design plans, using a sequence of steps, and represent them diagrammatically and in English, to solve a problem and to predict output for a given input to identify errors. | | **Assessment 1**  Drawing Data Networks |

Term 2

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| **Weeks** | **Lesson 1** | | | | **Lesson 2** | | | | | |
| **1** |  | | **Topic**  Review from Term 1 | **LI**  Review the topics covered in term 1.  **SC**  Identify two things’ students learned in Term 1 | **Digital Implementation**  Create and communicate information collaboratively online, taking into account social contexts | | **Topic**  Set up a One Drive account.  Saving to One Drive  Sharing with One Drive | | **LI**  Explore how to create a One Drive account  **SC**  Identify two uses for a One Drive account | |
| **2** | **Digital Systems**  Specifications of hardware components and their impact on network activities | **Topic**  Network Security (Firewalls etc.) | | **LI**  Explore how networks can be secured.  **SC**  Identify what options there are to secure networks | **Digital Systems**  Specifications of hardware components and their impact on network activities | | **Topic**  Network Security | **LI**  Explore how networks can be secured.  **SC**  Identify the best option for securing different types of networks | | |
| **3** | **Digital Systems**  Specifications of hardware components and their impact on network activities  **Digital Implementation**  Create and communicate interactive ideas collaboratively online, taking into account social contexts | | | **Assessment 2**  Cyber Security Case Study | **Digital Systems**  Specifications of hardware components and their impact on network activities  **Digital Implementation**  Create and communicate interactive ideas collaboratively online, taking into account social contexts | | | **Assessment 2**  Cyber Security Case Study | | |
| **4** | **Digital Systems**  Specifications of hardware components and their impact on network activities  **Digital Implementation**  Create and communicate interactive ideas collaboratively online, taking into account social contexts | | | **Assessment 2**  Cyber Security Case Study | **Digital Systems**  Specifications of hardware components and their impact on network activities  **Digital Implementation**  Create and communicate interactive ideas collaboratively online, taking into account social contexts | | | **Assessment 2**  Cyber Security Case Study | | |
| **5** | **Representation of data**  Binary is used to represent data in digital systems | **Topic**  Binary Code | | **LI**  Explore the concept of Binary Codes  **SC**  Identify that ones and zeros form the basic code in computers | **Representation of data**  Binary is used to represent data in digital systems | **Topic**  Binary Code | | **LI**  Explore the concept of Binary Codes  **SC**  Identify that ones and zeros form the basic code in computers | | |
| **6** | **Representation of data**  Binary is used to represent data in digital systems | | | **Assessment 3**  Binary Code Adventure | **Representation of data**  Binary is used to represent data in digital systems | | | **Assessment 3**  Binary Code Adventure | | |
| **7** | **Representation of data**  Binary is used to represent data in digital systems | | | **Assessment 3**  Binary Code Adventure | **Representation of data**  Binary is used to represent data in digital systems | | | **Assessment 3**  Binary Code Adventure | | |
| **8** | **Digital Implementation**  Create digital solutions that include a user interface where choices can be made **Producing and Implementing**  Safely make solutions using a range of components, equipment and techniques | **Topic**  Choice Selection ie. If-then etc. | | **LI**  Explore the role of choices in computing.  **SC**  Identify what choices can be made in computing, and the programs | **Digital Implementation**  Create digital solutions that include a user interface where choices can be made  **Evaluating**  Independently apply given contextual criteria to evaluate design process and solutions | | | **Non Assessed Task**  Building an Interface (Interactive Kiosk Task) | | |
| **9** | **Digital Implementation**  Design the user experience of a digital system.  Implement and modify solutions, that include user interfaces within a programming environment, including the need for choice of options and/or repeating options | | | **Non Assessed Task**  Building an Interface (Interactive Kiosk Task) | **Digital Implementation**  Design the user experience of a digital system.  Implement and modify solutions, that include user interfaces within a programming environment, including the need for choice of options and/or repeating options | | | **Non Assessed Task** Building an Interface (Interactive Kiosk Task) | | |
| **10** | **Digital Implementation**  Design the user experience of a digital system.  Implement and modify solutions, that include user interfaces within a programming environment, including the need for choice of options and/or repeating options | | | **Non Assessed Task**  Building an Interface (Interactive Kiosk Task) | **Digital Implementation**  Design the user experience of a digital system.  Implement and modify solutions, that include user interfaces within a programming environment, including the need for choice of options and/or repeating options | | | | | **Non Assessed Task** Building an Interface (Interactive Kiosk Task) |
| **11** | **Designing**  Design, develop, evaluate and communicate alternative solutions, using appropriate technical terms and technology.  Produce a simple plan designed to solve a problem, using a sequence of steps. | | | **Topic**  Scratch – Coding  ***Or catchup*** | **Designing**  Design, develop, evaluate and communicate alternative solutions, using appropriate technical terms and technology.  Produce a simple plan designed to solve a problem, using a sequence of steps. | | | **Topic**  Scratch – Coding  ***Or catchup*** | | |